

Designation: awropi24a-06 Last updated: 8/2/23

Source: Holzforschung Austria

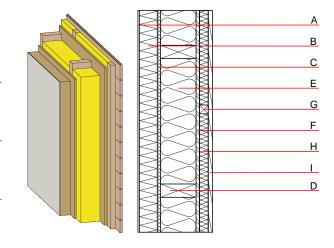
Editor: HFA, PLB

External wall - awropi24a-06

external wall, timber frame construction, not ventilated, with dry lining, with rendering, wooden surface

Performance rating

Thermal performance	U Diffusion	0.12 W/(m ² K) suitable
Calculated by HFA		
Acoustic performance	R _w (C;C _{tr}) L _{n,w} (C _I)	52(-3;-10) dB
Assessed by TGM		
Mass per unit area	m	80.50 kg/m²



Register of building materials used for this application, cross-section (from outside to inside, dimensions in mm)

	Thickness	Building material	Thermal pe	rformance			Reaction to fire
			λ	μ min – max	ρ	С	EN
Α	7.0	plaster	1.000	10 - 35	2000	1.130	A1
В	80.0	WF-PT [042; 180]	0.042	3 - 7	180	2.100	E
С	15.0	fibreboard (MDF)	0.140	11	600	1.700	D
D	240.0	construction timber (60/; e=625)	0.120	50	450	1.600	D
Е	240.0	Wood fibre insulation [039; 50]	0.039	1 - 2	50	2.100	E
F	15.0	OSB (sealed with airtight tape)	0.130	200	600	1.700	D
G	40.0	spruce wood cross battens (a=400) or battens offset)	0.120	50	450	1.600	D
Н	40.0	Wood fibre insulation [039; 50]	0.039	1 - 2	50	2.100	E
I	19.0	planking tongue and groove	0.120	50	450	1.600	D

Sustainability rating (per m²)

Database ecoinvent
Ol3_{Kon} 36.4

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Details of sustainability rating

Database ecoinvent

Lifecycle	GWP	AP	EP	ODP	POCP	
(Phases)	[kg CO ₂ -e.]	[kg SO ₂ -e.]	[kg PO ₄ -e.]	[kg R11-e.]	[kg Ethen-e.]	
A1 - A3		0.181	0.080	3,20E-6	0.032	
Lifecycle	PERE	PERM	PERT	PENRE	PENRM	PENRT
(Phases)	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]	[MJ]
	163.078	1121.639	1284.717	639.715	71.250	710.965